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Application No. 10/000,968	Prepared by	RMT	Tracking Number	05987912
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a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449		
b. Applicant(s)	g. Disclaimer	I. Print Fig.	q. PTOL-85b		
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract		
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs		
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other		

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- 20. (Currently amended) The method of claim 18 wherein said inorganic network precursor species is selected from the group consisting of tetraethoxysilane (TEOS), tetramethoxysilane (TMOS), and tetrapropoxysilane (TPOS).
- 21. (Currently amended) The method of claim 18 wherein said inorganic network precursor species is an inorganic oxide selected from the group consisting of Nb<sub>2</sub>O<sub>5</sub>, TiO<sub>2</sub>, ZrO<sub>2</sub>, WO<sub>3</sub>, AlSiO<sub>3.5</sub>, AlSiO<sub>5.5</sub>, SiTiO<sub>4</sub>, Al<sub>2</sub>O<sub>3</sub>, Ta<sub>2</sub>O<sub>5</sub>, SiO<sub>2</sub>, SnO<sub>2</sub>, HfO<sub>2</sub>, ZrTiO<sub>4</sub>, and Al<sub>2</sub>TiO<sub>5</sub>.
- (Currently amended) The method of claim 18 83 wherein the inorganic network is a metal oxynitride, metal oxychalcogenide, metal nitride, or metal chalcogenide.
- 23. (Original) The method of claim 18 wherein said block copolymer is an amphiphilic block copolymer.
- 24. (Original) The method of claim 18, said block copolymer comprising at least two different poly(alkylene oxide) blocks, wherein the alkylene oxide of one or more blocks has at least three carbon atoms.
- 25. (Original) The method of claim 18 wherein said block copolymer is a diblock, triblock, or star block copolymer.
- 26. (Original) The method of claim 18 wherein said block copolymer is is a poly(ethylene oxide)-poly(alkylene oxide)-poly (ethylene oxide) polymer where the alkylene oxide has at least three carbon atoms.
- 27. (Original) The method of claim 26, wherein said block copolymer is poly(ethyleneoxide)-poly(propyleneoxide)-poly(ethyleneoxide).
- 28. (Currently amended) The method of claim 18 wherein said optically responsive agent is a moiety is selected from the group consisting of lumiphores, chromophores, pH indicators, oxidation state indicators and chemically compatible combinations thereof.
- 29. (Original) The method of claim 18 wherein said optically responsive agent is present in the self assembling system at a concentration of about 0.10 wt% to about 10 wt%.
- 30. (Original) A method of forming a transparent mesoscopically structured material that includes an optical or redox responsive moiety, comprising:
  - i) preparing a self-assembling system by dissolving an inorganic network precursor species and a block copolymer in a solvent;
  - ii) polymerizing or crystallizing said precursor species to form a mesostructured composite, said composite comprising an inorganic network;

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